

**DERWENT-** 1981-27764D

**ACC-NO:**

**DERWENT-** 198116

**WEEK:**

*COPYRIGHT 1999 DERWENT INFORMATION LTD*

**TITLE:** Closed filter tank contg. stack of filter plates - where each plate is made from sheets of expanded metal to reduce mfg. cost and wt. of plates

**PATENT-ASSIGNEE:** TOURNAIRE SA[TOURN]

**PRIORITY-DATA:** 1979FR-0017530 (June 29, 1979)

**PATENT-FAMILY:**

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
FR 2460154 A	February 27, 1981	N/A	000	N/A

**INT-CL (IPC):** B01D025/04

**ABSTRACTED-PUB-NO:** FR 2460154A

**BASIC-ABSTRACT:**

Inside the tank is a vertical stack of horizontal filter plates which are clamped together and are covered by a filter paper on both their top and bottom surfaces. Each plate consists of a top and bottom plate, which are pref. made of expanded metal; and the two flat plates are sepd. by an intermediate plate forming a reservoir between plates. The intermediate plate is pref. also made of expanded metal; and the stack of plates is pref. clamped in a frame by an axial tie-rod.

The filter is easily assembled and dismantled, and is thus very easy to clean. By using expanded metal sheets instead of the conventional perforated plates, the mfg. cost is halved; the wt. of each plate is reduced by ca. 25%; and the coefft. of fluid flow through the plates is increased from 40% to 70%.

**TITLE-** CLOSE FILTER TANK CONTAIN STACK FILTER PLATE PLATE  
**TERMS:** MADE SHEET EXPAND METAL REDUCE MANUFACTURE COST  
WEIGHT PLATE

**DERWENT- 1990-068182****ACC-NO:****DERWENT- 199010****WEEK:*****COPYRIGHT 1999 DERWENT INFORMATION LTD***

**TITLE:** Lifting appts. for remote control installation of radioactive material - has movable overhead-carriage system including lifting device with motor-drive and chains

**INVENTOR: WIRTZ, W****PATENT-ASSIGNEE: WIRTZ, W UHDE GMBH[UHDE]****PRIORITY-DATA: 1988DE-3829213 (August 29, 1988)****PATENT-FAMILY:**

<b>PUB-NO</b>	<b>PUB-DATE</b>	<b>LANGUAGE</b>	<b>PAGES</b>	<b>MAIN-IPC</b>
DE 3829213 A	March 1, 1990	N/A	004	N/A

**APPLICATION-DATA:**

<b>PUB-NO</b>	<b>APPL-DESCRIPTOR</b>	<b>APPL-NO</b>	<b>APPL-DATE</b>
DE 3829213A	N/A	1988DE-3829213	August 29, 1988

**INT-CL (IPC): B01D046/42, B66C011/10 , G21F007/06****ABSTRACTED-PUB-NO: DE 3829213A****BASIC-ABSTRACT:**

A lifting arrangement for the remote controlled installation of a cell for treatment of radioactive material having a movable overhead-carriage system includes a lifting device with motor-drive and chains, whereby the lifting device incorporates a load lifting system for chain and connects to a rotary arm rotatably arranged on the overhead carriage. Chain is arranged over pulleys near the axis of rotation of rotary arm whilst the lifting device is fitted to the rotary arm out of centre.

**USE/ADVANTAGE** - The arrangement can be used to interchange filter inserts in

nuclear hot cells, etc. The design consists of simple components, requiring little space and facilitating to conduct several processes without additional equipment.

**CHOSEN-** Dwg.0/1

**DRAWING:**

**TITLE-** LIFT APPARATUS REMOTE CONTROL INSTALLATION  
**TERMS:** RADIOACTIVE MATERIAL MOVE OVERHEAD CARRIAGE  
SYSTEM LIFT DEVICE MOTOR DRIVE CHAIN

**DERWENT-CLASS:** K07 Q38

**CPI-CODES:** K06-C; K07-A;

**SECONDARY-ACC-NO:**

**CPI Secondary Accession Numbers:** C1990-029834

**Non-CPI Secondary Accession Numbers:** N1990-052229



L Number	Hits	Search Text	DB	Time stamp
2	1683	(210/232).CCLS.	USPAT; US-PGPUB	2003/03/06 09:48
1	902	(210/330-331,346).CCLS.	USPAT; US-PGPUB	2003/03/06 11:34
3	172	(filter same (disks or discs or cells or pads)) and (lifting same (device or apparatus or hoist))	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/06 09:57
4	12	("1630456"   "2014807"   "2382227"   "2951725"   "3212650"   "4676396"   "4796779"   "4905870"   "5056842"   "5184860"   "5513889"   "5607584").PN.	USPAT	2003/03/06 10:01
5	22	("2353433"   "2731155"   "2757802"   "2781914"   "3666107"   "4007113"   "4007114"   "4132641"   "4305782"   "4309247"   "4347208"   "4361486"   "4617128"   "4669167"   "4881313"   "4921606"   "5045194"   "5217610"   "5246581"   "5328606"   "5417855"   "5482624").PN.	USPAT	2003/03/06 10:02
6	438	(D34/33,35).CCLS.	USPAT; US-PGPUB	2003/03/06 11:53
7	2	de-19949613-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/06 14:17
8	1	2001-368296.NRAN.	DERWENT	2003/03/06 11:54
9	1	2001-368296.NRAN.	DERWENT	2003/03/06 11:55
10	1	("6306298").PN.	USPAT; US-PGPUB	2003/03/06 12:33
11	12	("2313307"   "3246920"   "4559138"   "4707262"   "4750765"   "5055192"   "5141637"   "5261934"   "5435915"   "5482624"   "5601711"   "5882511").PN.	USPAT	2003/03/06 12:28
12	1	6306298.URPN.	USPAT	2003/03/06 12:32
13	1	diemer.in. and filter and cells	USPAT; US-PGPUB	2003/03/06 12:34
14	22	(closing adj ring) and filter and cells	USPAT; US-PGPUB	2003/03/06 12:34
15	2	wo-9919041-\$.did.	USPAT; US-PGPUB; EPO; JPO; DERWENT	2003/03/06 14:09
16	1013	(210/437-438,443).CCLS.	USPAT; US-PGPUB	2003/03/06 14:11
17	1038	(210/488,486).CCLS.	USPAT; US-PGPUB	2003/03/06 14:12

18	1	fr-2460154-\$.dld.	USPAT; US-PGPUB; EPO; JPO; DERWENT DERWENT	2003/03/06 14:17
19	1	1981-27764D.NRAN.		
-	288	(210/323.1).CCLS.	USPAT; US-PGPUB	2003/03/06 14:17
-	144	(210/322).CCLS.	USPAT; US-PGPUB	2003/02/05 09:35
-	679	(210/323.2).CCLS.	USPAT; US-PGPUB	2003/02/04 13:53
-	302	(210/331).CCLS.	USPAT; US-PGPUB	2003/02/04 13:53
-	957	(210/323.1-323.2).CCLS.	USPAT; US-PGPUB	2003/02/06 11:17
-	732	(210/345-347).CCLS.	USPAT; US-PGPUB	2003/02/05 09:36
-	5	("3931017"   "3948778"   "4282094"   "4708797"   "5549824").PN.	USPAT; USPAT	2003/02/05 10:04
-	1928	(210/232,237).CCLS.	USPAT; US-PGPUB	2003/02/05 10:03
-	70	((210/232,237).CCLS.) and (filter adj3 (disc\$1 or disk\$1))	USPAT; US-PGPUB	2003/02/05 10:04
-	37	("0226249"   "1331237"   "1602647"   "1747149"   "1757153"   "1987597"   "2066479"   "2066497"   "2487769"   "2742158"   "2742647"   "2758877"   "3042214"   "3055290"   "3212643"   "3272342"   "3355025"   "3397793"   "3959140"   "4042504"   "4045345"   "4120794"   "4204961"   "4271018"   "4468319"   "4495068"   "4585553"   "4614581"   "4624785"   "4642182"   "4654143"   "4664812"   "4732673"   "4744901"   "4863598"   "4871457"   "4923601").PN.	USPAT; US-PGPUB USPAT	2003/02/05 10:26 2003/02/05 10:06
-	12	("1602647"   "2742158"   "2758877"   "3272342"   "4204961"   "4468319"   "4495068"   "4614581"   "4624785"   "4642182"   "4654143"   "4732673").PN.	USPAT	2003/02/05 10:10
-	392	(210/444).CCLS.	USPAT; US-PGPUB	2003/02/05 11:21
-	1	"3190449".PN.	USPAT	2003/02/05 11:05
-	243	(210/438).CCLS.	USPAT; US-PGPUB	2003/02/05 11:22
-	475	(210/486).CCLS.	USPAT; US-PGPUB	2003/02/05 11:34
-	233	(210/495).CCLS.	USPAT; US-PGPUB	2003/02/05 11:34
-	605	(210/238).CCLS.	USPAT; US-PGPUB	2003/02/06 09:37

-	17	("1547368"   "3064818"   "3615016"   "3838289"   "3890233"   "4032449"   "4224160"   "4257880"   "4280906"   "4283282"   "4572710"   "4828691"   "4883588"   "5017330"   "5347554"   "5379330"   "5478469").PN.	USPAT	2003/02/06 09:27
-	218	(414/788.1-788.2).CCLS.	USPAT;	2003/02/06
-	585	(210/488).CCLS.	US-PGPUB	09:38
-	251	(414/788.6,788.9).CCLS.	USPAT;	2003/02/06
-	158	(210/461).CCLS.	US-PGPUB	11:59
-	236	(210/230).CCLS.	USPAT;	2003/02/06
-	880	(210/237-238).CCLS.	US-PGPUB	16:25
-	1778	(210/486,488-489).CCLS.	USPAT;	2003/02/06
-	585	(210/346,347).CCLS.	US-PGPUB	16:25
			USPAT;	2003/03/05
			US-PGPUB	14:23
			USPAT;	2003/03/05
			US-PGPUB	14:24
			USPAT;	2003/03/05
			US-PGPUB	14:24
			USPAT;	2003/03/06
			US-PGPUB	09:45